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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/534,832	05/13/2005	Dirk Gozewinus Simons	2004-1043	2406
466 Young & Th	7590 02/01/2007 HOMPSON		EXAMINER	
745 SOUTH 23RD STREET PIHULIC, DANIEL T				DANIEL T
2ND FLOOR ARLINGTON,	. VA 22202		ART UNIT PAPER NUMBER	
	,		3662	
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SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
2 MC	NITUS	02/01/2007	PAPED	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)		
		•			
	Office Action Summary	10/534,832	SIMONS, DIRK GO	DZEWINUS .	
		Examiner	Art Unit		
	The MAILING DATE of this communication	Daniel T. Pihulic	3662		
Period for	The MAILING DATE of this communication a Reply	ippears on the cover sheet with	the correspondence add	ress	
WHICH - Extensi after SI - If NO pr - Failure Any rep	RTENED STATUTORY PERIOD FOR REP IEVER IS LONGER, FROM THE MAILING ons of time may be available under the provisions of 37 CFR X (6) MONTHS from the mailing date of this communication. eriod for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by stat by received by the Office later than three months after the mail patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a report of will apply and will expire SIX (6) MONTHURE, cause the application to become ABA	ATION. Ily be timely filed IS from the mailing date of this con NDONED (35 U.S.C. & 133)		
Status					
1) 🗌 🖪	desponsive to communication(s) filed on				
		nis action is non-final.			
'=	ince this application is in condition for allow		's prosecution as to the i	merits is	
	losed in accordance with the practice under				
	n of Claims	,	,		
	claim(s) <u>1-20</u> is/are pending in the application	nn.		•	
	a) Of the above claim(s) is/are withdi				
	claim(s) is/are allowed.	rawn nom consideration.			
· <u> </u>	claim(s) <u>1-20</u> is/are rejected.				
	claim(s) is/are objected to.				
	claim(s) are subject to restriction and	Vor election requirement			
		ror election requirement.			
Application	•				
	ne specification is objected to by the Exami				
	ne drawing(s) filed on 13 May 2005 is/are:				
	pplicant may not request that any objection to the				
	eplacement drawing sheet(s) including the corre				
11)∐ Ti	ne oath or declaration is objected to by the	Examiner. Note the attached (Office Action or form PTC	D-152.	
Priority un	der 35 U.S.C. § 119				
12)⊠ Ad	cknowledgment is made of a claim for forei	gn priority under 35 U.S.C. § 1	119(a)-(d) or (f).		
a)⊠	All b) Some * c) None of:				
1	. Certified copies of the priority docume	nts have been received.			
2	. Certified copies of the priority docume	nts have been received in App	olication No		
3	. Copies of the certified copies of the pr	iority documents have been re	eceived in this National S	tage	
	application from the International Bure	au (PCT Rule 17.2(a)).			
* Se	e the attached detailed Office action for a li	st of the certified copies not re	eceived.		
Amakar : 4					
Attachment(s	•	, -	(570.440)		
2) Notice (of References-Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948)	4) Linterview Sur Paper No(s)/	mmary (PTO-413) Mail Date		
3) 因 Informa	tion Disclosure Statement(s) (PTO/SB/08)	5) D Notice of Info	ormal Patent Application		
Paper N	lo(s)/Mail Date <u>20050513</u> .	6) Other:			

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1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which

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papers have been placed of record in the file.

2. The drawings are objected to because the boxes in FIG. 2 should have

descriptive labels in addition to the reference numerals. Correction is required.

3. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine,

manufacture, or composition of matter, or any new and useful improvement

thereof, may obtain a patent therefor, subject to the conditions and requirements

of this title.

Claims 12 and 13 are rejected under 35 U.S.C. 101 because the claimed invention is

directed to non-statutory subject matter. The claims recite a computer program product,

but do not recite a computer readable medium.

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a

foreign country or in public use or on sale in this country, more than one year

prior to the date of application for patent in the United States.

5. Claims 1-6 and 8-20 are rejected under 35 U.S.C. 102(b) as being anticipated by

US5568450. The US5568450 reference discloses a method for seabed classification.

comprising measuring the strength of the acoustic waves reflected from a seabed; and

performing an acoustic scattering measurement (see the abstract) as recited in claims 1

and 8.

With regards to claim 2, the US5568450 reference discloses a step of normalizing the

measurements (see column 9, lines 48-54).

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With regards to claims 3 and 14, the US5568450 reference discloses a step of angle selection (see column 9, line 55- column 10, line 9).

With regards to claims 4, 15 and 16, the US5568450 reference discloses a step of a pulse for the measurements (see column 10, lines 30-43).

With regards to claims 5 and 9, the US5568450 reference discloses a time window for the measurements (see column 10, lines 15-43).

With regards to claims 6 and 17-19, the US5568450 reference discloses the utilization of Lambert scattering for the measurements (see column 9, lines 48-54).

With regards to claims 10 and 11, the US5568450 reference discloses the utilization of sonar system (206).

With regards to claims 12 and 13, the US5568450 reference discloses the utilization of computers and algorithms (see column 14 --column 16).

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over US5568450 as applied to claim 1 above, and in combination with US20030206489. The difference between the US5568450 reference and the claims is that the claim recites the utilization of a frequency spectrum that is substantially above 50 KHz. The US20030206489 reference teaches that it was well known in the art to utilize a

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frequency of 95 KHz in a seabed classification system. It would have been obvious to

modify the US5568450 reference to utilize a frequency of 95 KHz as motivated by the

US20030206489 reference to enable the US5568450 system to measure over a wide

arc.

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Dan Fihulic whose telephone number is 571-272-6977.

The examiner can normally be reached on Monday and Wednesday through Friday from

5:30 a.m. to 4 p.m. If attempts to reach the examiner by telephone are unsuccessful, the

examiner's supervisor, Thomas Tarcza, can be reached on 571-272-6979.

The fax phone numbers for the organization where this application or proceeding is

assigned are:

571-273-8300 for official responses, and

571-273-6977 for unofficial communications.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to telephone number is 800-786-9199.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have questions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

Daniel T. Pihulic Primary Examiner T.C. Art Unit 3662